

50-Port Dual Web Rack Switch

A02-F48-4G



USER'S MANUAL

A02-F48-4G_ME01



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CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Warning

This equipment has been tested and found to comply with the regulations for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

UL Warning

- a) Elevated Operating Ambient Temperature- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra).
- b) Reduced Air Flow- Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- c) Mechanical Loading- mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- d) Circuit Overloading- Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- e) Reliable Earthing- Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).



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Chapter 1 Introduction

1.1 About This Guide

Congratulations on your purchase of the 48+4G-Port 10/100/1000Mbps Gigabit Ethernet Web Smart Switch. This device integrates 1000Mbps Gigabit Ethernet, 100Mbps Fast Ethernet and 10Mbps Ethernet network capabilities in a highly flexible package. This guide discusses how to install your 48+4G-Port 10/100/1000Mbps Gigabit Ethernet Web Smart Switch.

1.2 Terms/Usage

In this guide, the term "Switch" (first letter upper case) refers to your 48+4G-Port 10/100/1000Mbps Gigabit Ethernet Web Smart Switch, and "switch" (first letter lower case) refers to other Ethernet switches

1.3 Switch Features

This chapter describes the features of the 48+4G-Port 10/100/1000Mbps Gigabit Ethernet Web Smart Switch and some background information about Ethernet/Fast Ethernet/Gigabit Ethernet switching technology.

Gigabit Ethernet Technology

Gigabit Ethernet is an extension of IEEE 802.3 Ethernet utilizing the same packet structure, format, and support for CSMA/CD protocol, full duplex, flow control, and management objects, but with a tenfold increase in theoretical throughput over 100-Mbps Fast Ethernet and a hundredfold increase over 10-Mbps Ethernet. Since it is compatible with all 10-Mbps and 100-Mbps Ethernet environments, Gigabit Ethernet provides a straightforward upgrade without wasting a company's existing investment in hardware, software, and trained personnel.

The increased speed and extra bandwidth offered by Gigabit Ethernet is essential to coping with the network bottlenecks that frequently develop as computers and their busses get faster and more users use applications that generate more traffic. Upgrading key components, such as your backbone and servers to Gigabit Ethernet can greatly improve network response times as well as significantly speed up the traffic between your subnets.

Gigabit Ethernet enables fast optical fiber connections to support video conferencing, complex imaging, and similar data-intensive applications. Likewise, since data transfers occur 10 times faster than Fast Ethernet, servers outfitted with Gigabit Ethernet NIC's are able to perform 10 times the number of operations in the same amount of time.

In addition, the phenomenal bandwidth delivered by Gigabit Ethernet is the most cost-effective method to take advantage of today and tomorrow's rapidly improving switching and routing



internetworking technologies. And with expected advances in the coming years in silicon technology and digital signal processing that will enable Gigabit Ethernet to eventually operate over unshielded twisted-pair (UTP) cabling, outfitting your network with a powerful 1000-Mbps-capable backbone/server connection creates a flexible foundation for the next generation of network technology products.

Fast Ethernet Technology

The growing importance of LANs and the increasing complexity of desktop computing applications are fueling the need for high performance networks. A number of high-speed LAN technologies have been proposed to provide greater bandwidth and improve client/server response times. Among them, 100BASE-T (Fast Ethernet) provides a non-disruptive, smooth evolution from the current 10BASE-T technology. The non-disruptive and smooth evolution nature, and the dominating potential market base, virtually guarantees cost-effective and high performance Fast Ethernet solutions.

100Mbps Fast Ethernet is a standard specified by the IEEE 802.3 LAN committee. It is an extension of the 10Mbps Ethernet standard with the ability to transmit and receive data at 100Mbps, while maintaining the CSMA/CD Ethernet protocol. Since the 100Mbps Fast Ethernet is compatible with all other 10Mbps Ethernet environments, it provides a straightforward upgrade and takes advantage of the existing investment in hardware, software, and personnel training.

Switching Technology

Another approach to pushing beyond the limits of Ethernet technology is the development of switching technology. A switch bridges Ethernet packets at the MAC address level of the Ethernet protocol transmitting among connected Ethernet or Fast Ethernet LAN segments.

Switching is a cost-effective way of increasing the total network capacity available to users on a local area network. A switch increases capacity and decreases network loading by dividing a local area network into different segments, which don't compete with each other for network transmission capacity.

The switch acts as a high-speed selective bridge between the individual segments. The switch, without interfering with any other segments, automatically forwards traffic that needs to go from one segment to another. By doing this the total network capacity is multiplied, while still maintaining the same network cabling and adapter cards.

Switching LAN technology is a marked improvement over the previous generation of network bridges, which were characterized by higher latencies. Routers have also been used to segment local area networks, but the cost of a router, the setup and maintenance required make routers relatively impractical. Today switches are an ideal solution to most kinds of local area network congestion problems.

VLAN (Virtual Local Area Network)

A VLAN is a group of end-stations that are not constrained by their physical location and can communicate as if a common broadcast domain, a LAN. The primary utility of using VLAN is to reduce latency and need for routers, using faster switching instead. Other VLAN utility includes:

- **Security**, Security is increased with the reduction of opportunity in eavesdropping on a broadcast network because data will be switched to only those confidential users within the VLAN.
- **Cost Reduction**, VLANs can be used to create multiple broadcast domains, thus eliminating the need of expensive routers.
- Port-based (or port-group) VLAN is the common method of implementing a VLAN, and is the one supplied in the Switch.



QoS

QoS gives you full control over which types of outgoing data traffic should be given priority by the Switch, ensuring important data like gaming packets move through the Switch at lightning speed, even under heavy load.

1.4 Features

Dual Web Rack Switch provides the following features:

- 48×10/100Mbps Auto-negotiation Fast Ethernet RJ45 ports
- 2×10/100/1000Mbps Auto-negotiation Gigabit RJ45 ports
- 2×mini-GBIC ports
- All RJ45 ports support auto MDI/MDIX, so there is no need to use cross-over cables or an uplink port
- Full/half duplex transfer mode for 10/100Mbps RJ45 port
- Full duplex transfer mode for Gigabit port
- Wire speed reception and transmission
- Store-and-Forward switching scheme capability to support rate adaptation and ensure data integrity
- Up to 4K unicast addresses entities per device, self-learning, and table aging
- 1536KBytes packet buffer
- Supports IEEE 802.3x flow control for full-duplex mode ports
- Supports Back-pressure flow control for half-duplex mode ports
- Supports port-base VLAN
- Supports port-base QoS
- Supports Trunking on 1000BASE-T ports
- Supports Port-setting for Speed/Disable, Flow control
- Easy configuration via WEB Browser
- Easy setting via Web Management Utility
- Standard 19" Rack-mount size



Chapter 2

Installation

This chapter provides unpacking and installation information for the Switch.

2.1 Package Contents

Open the shipping cartons of the Switch and carefully unpacks its contents. The carton should contain the following items:

- 50-Port Dual Web Rack Switch
- One AC power cord, suitable for your area's electrical power connections
- Four rubber feet to be used for shock cushioning
- Screws and two mounting brackets
- CD-Rom with Web Management Utility and User's Guide

If any of the above items are missing, please contact your reseller.

2.2 Installation

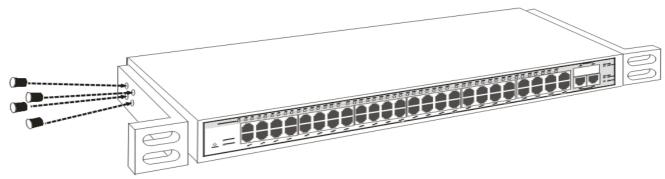
The site where you install the hub stack may greatly affect its performance. When installing, consider the following pointers:

- Install the Switch in a fairly cool and dry place. See Technical Specifications for the acceptable temperature and humidity operating ranges.
- Install the Switch in a site free from strong electromagnetic field generators (such as motors), vibration, dust, and direct exposure to sunlight.
- Leave at least 10cm of space at the front and rear of the hub for ventilation.
- Install the Switch on a sturdy, level surface that can support its weight, or in an EIA standard-size equipment rack. For information on rack installation, see the next section, Rack Mounting.
- When installing the Switch on a level surface, attach the rubber feet to the bottom of each device. The rubber feet cushion the hub and protect the hub case from scratching.

2.3 Rack Mounting

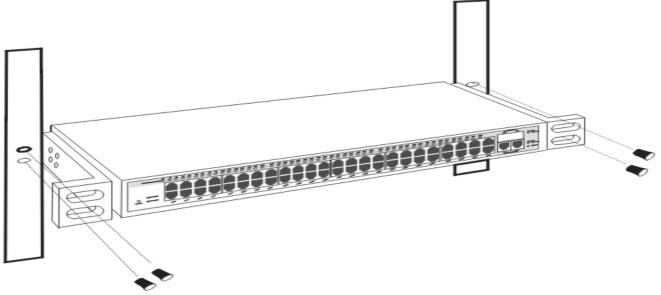
The switch can be mounted in an EIA standard-size, 19-inch rack, which can be placed in a wiring closet with other equipment. Attach the mounting brackets at the switch's front panel (one on each side), and secure them with the provided screws.





Combine the Switch with the provided screws

Then, use screws provided with the equipment rack to mount each switch in the rack.



Mount the Switch in the rack

2.4 Connecting Network Cable

The Switch supports 10Mbps Ethernet or 100Mbps Fast Ethernet and it runs both in half and full duplex mode using two pair of Category 5 cable.

The Switch also supports 2-Ports 1000Mbps Gigabit Ethernet that runs in Auto-negotiation mode and 10Mbps Ethernet or 100Mbps Fast Ethernet that runs both in half and full duplex mode and 1000Mbps Gigabit Ethernet runs in full duplex mode using four pair of Category 5 Cable.

These RJ45 ports are Auto-MDI type port. The Switch can auto transform to MDI-II or MDI-X type, so you can just make an easy connection that without worrying if you are using a standard or crossover RJ45 cable.

There are additional two mini-GBIC ports for optional mini-GBIC module.



Product Code	A02-MSW2(Fiber module)
Description	Giga Ethernet Fiber Module
Standards	1000BASE-SX
Network Media	50μm or 62.5μm multimode optical fibers
Connector	LC

Technology	Connector	Distance
10 Base T	RJ45	100m
100 Base TX	RJ45	100m
1000 Base T	RJ45	100m
1000 Base SX	LC (62.5µm multimode optical fibers)	275m
1000 Base SX	LC (50µm multimode optical fibers)	550m

2.5 AC Power

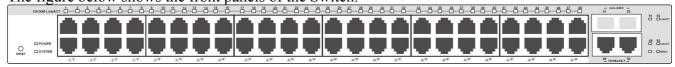
The Switch used the AC power supply 100-240V AC, 50-60 Hz. The power switch is located at the rear of the unit adjacent to the AC power connector and the system fan. The switch's power supply will adjust to the local power source automatically and may be turned on without having any or all LAN segment cables connected.

2.6 Identifying External Components

This chapter describes the front panel, rear panel, and LED indicators of the Switch.

Front Panel

The figure below shows the front panels of the Switch.



50-port Dual Web Rack Switch

LED Indicator:

Comprehensive LED indicators display the status of the switch and the network (see the LED Indicators chapter below).

Fast Ethernet Ports (Port 1~48):

These ports support network speeds of either 10Mbps or 100Mbps, and can operate in half- and full-duplex transfer modes. These ports also supports automatic MDI/MDIX crossover detection function gives true "plug and play" capability, just need to plug-in the network cable to the hub directly and don't care if the end node is NIC (Network Interface Card) or switch and hub.

When the port was set to "Forced Mode", the Auto MDI/MDIX will be disabled.

Gigabit Ethernet Ports (Port 49~50)::



50-Port Dual Web Rack Switch

The Switch is equipped with two Gigabit twisted pair ports, supported auto negotiable 10/100/1000Mbps and auto MDI/MDIX crossover detection function. These two ports can operate in half-duplex mode for 10/100Mbps and full-duplex mode for 10/100/1000Mbps.

When the port was set to "Forced Mode", the Auto MDI/MDIX will be disabled.

Mini-GBIC Ports (Port 51~52):

The Switch is equipped with two mini-GBIC ports, supported optional 1000BASE-SX/LX mini-GBIC module (1000BASE-SX mini-GBIC module).

Reset:

The Reset button is to reset all the setting back to the factory default.

Note: Be sure that you recorded the setting of your device, else all the setting will be erased when pressing the "Reset" button.

Rear Panel



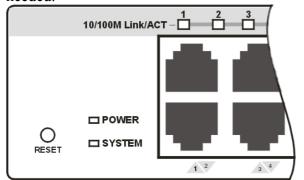
Power Connector

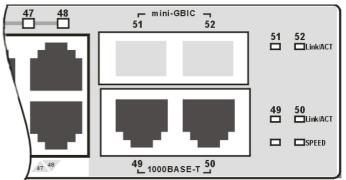
AC Power Connector:

This is a three-pronged connector that supports the power cord. Plug in the female connector of the provided power cord into this connector, and the male into a power outlet. Supported input voltages range from 100-240V AC at 50-60Hz.

Understanding LED Indicators

The front panel LEDs provides instant status feedback, and, helps monitor and troubleshoot when needed.





Led POWER

LCui	Eta 1 0 WER	
On	:	When the Power LED lights on, the Switch is receiving power.
Off	:	When the Power turns off or the power cord has improper connection



Led SYSTEM

Blinking:	When the CPU is working, the System LED is blinking.
On/Off :	The CPU is not working.

Ports 1~48 10/100M Status LEDs

Link/ACT: Link/Activity

On :	When the Link/ACT LED lights on, the respective port is successfully connected to an
	Ethernet network.
Blinking:	When the Link/ACT LED is blinking, the port is transmitting or receiving data on the
	Ethernet network.
Off :	No link.

Ports 49~50 Gigabit Status LEDs

Link/ACT: Link/Activity

	• = • • • • • • • • • • • • • • • • • •
On :	When the Link/ACT LEDA lights on, the respective port is successfully connected to an
	Ethernet network.
Blinking:	When the Link/ACT LED is blinking, the port is transmitting or receiving data on the
	Ethernet network.
Off :	No link.

SPEED:

On (Green)	: When the green light is on, the respective port is connected to a 1000Mbps Gigabit
	Ethernet network.
On (Amber)	When the Amber light is on, the respective port is connected to a 100Mbps Fast
	Ethernet network.
Off	: When the respective port is connected to a 10Mbps Ethernet or No link

Ports 51~52 mini-GBIC Status LEDs

Link/ACT: Link/Activity

On	: When the mini-GBIC module is installed and connected to a network, the Link/ACT
	LED lights on.
Blinking	: When the LED is blinking, the mini-GBIC module is receiving data on a network.
Off	: No link.



Chapter 3

Configuration

Through the Web Browser you can configure the Switch such as VLAN, Trunking, QoS... etc. With the attached Web Management Utility, you can easily discover all the Web Management Switch, assign the IP Address, changing the password and upgrading the new firmware.

3.1 Installing the Web Management Utility

The following gives instructions guiding you through the installations of the Web Management utility.

- 1. Insert the Utility CD in the CD-Rom Drive.
- 2. From the **Start** menu on the Windows desktop, choose **Run**.
- 3. In the **Run** dialog box, type CDRom:\Driver\A02-F24-4G\setup.exe and click **OK**.
- 4. Follow the on-screen instructions to install the utility.
- 5. Upon completion, go to **Program Files -> web_management_utility** and execute the Web Management utility.

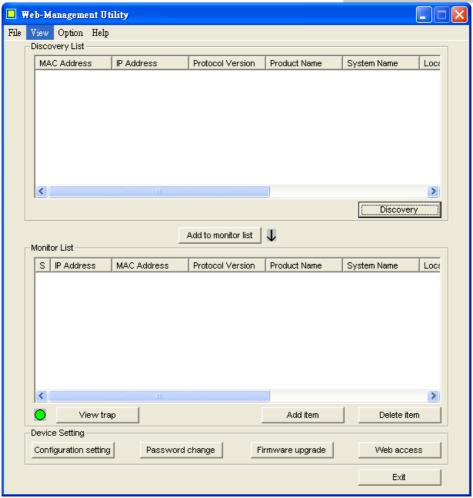
3.2 Web Management Utility

The Web Management Utility was divided into four parts:

- Discovery List
- Monitor List
- Device Setting
- Toolbar function

for details instruction, follow the below section.





Discovery List

This is the list where you can discover all the Web management devices in the entire network.

By pressing the "Discovery" button, you can list all the Web Management devices in the discovery list.

Double click or press the "Add to monitor list" button to select a device from the Discovery List to the Monitor List.

System word definitions in the Discovery List:

- MAC Address: Shows the device MAC Address.
- IP Address: Shows the current IP address of the device.
- Protocol version: Shows the version of the Utility protocol.
- Product Name: Shows the device product name.
- System Name: Shows the appointed device system name.
- Location: Shows where the device is located.
- Trap IP: Shows the IP where the Trap to be sent.
- Subnet Mask: Shows the Subnet Mask set of the device.
- Gateway: Shows the Gateway set of the device.



Monitor List

All the Web Smart Device in the Monitor List can be monitored; you can also receive the trap and show the status of the device.

System word definitions in the Monitor List:

- S: Shows the system symbol of the Web-Smart device, represent for device system is not alive.
- IP Address: Shows the current IP address of the device.
- MAC Address: Shows the device MAC Address.
- Protocol version: Shows the version of the Utility protocol.
- Product Name: Shows the device product name.
- System Name: Shows the appointed device system name.
- Location: Shows where the device is located.
- Trap IP: Shows the IP where the Trap to be sent.
- Subnet Mask: Shows the Subnet Mask set of the device.
- Gateway: Shows the Gateway set of the device.

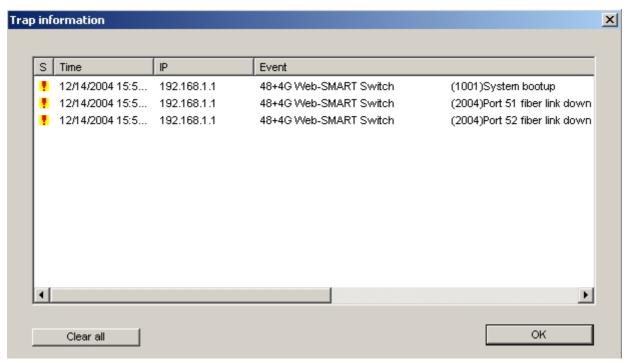
View Trap: The Trap function can receive the events that happen from the Web Management Switch in the Monitor List.

There is a light indicator behind the "View Trap" button, when the light indicates in green, it means that there is no trap transmitted, and else when it indicates in red, it means that there is new trap transmitted, this is to remind us to view the trap.



When the "View Trap" button is clicked, a Trap Information window will pop out, it will show the trap information including the Symbol, Time, Device IP and the Event occured.

The symbol "" represents the trap signal arise, this symbol will disappear after you review and click on the event record





50-Port Dual Web Rack Switch



In order to receive Trap information, switch has to be configured with Trap IP and Trap Events in Web browser, which are available in the Trap Setting Menu

Add Item: To add a device to the Monitor List manually, enter the IP Address of the device that you want to monitor.

Delete Item: To delete the device in the Monitor List.

Device Setting

You can set the device by using the function key in the Device Setting Dialog box.

Configuration Setting: In this Configuration Setting, you can set the IP Address, Subnet Mask, Gateway, Set Trap to (Trap IP Address), System name and Location.

Select the device in the Discovery list or Monitor List and press this button, then the Configuration Setting window will pop out as Figure below, after filling up the data that you want to change, you must fill up the password and press the "**Set**" to process the data changed immediately.

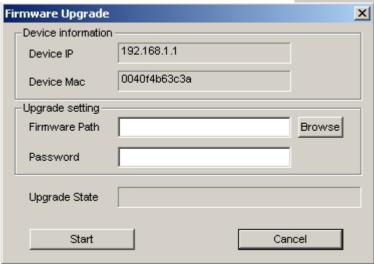
Configuration sett		to process are dam enting.	×
Product name	48+4G Web-SMART Switch	MAC Address	0040f4b63c3a
IP Address	192 . 168 . 1 . 1	Subnet mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 254	Set trap to	192 . 168 . 1 . 178
System name	A02-F48-4G	Location	PM Office1
Password	****		
Set			Cancel

Password Change: You can use this Password Change when you need to change the password, fill in the password needed in the dialog box and press "Set" button to proceed the password change immediately. The factory default password is "admin".

New password		Confirm pa	ssword	
Original password				
Set	1			Cancel

Firmware Upgrade: When the device has a new function, there will be a new firmware to update the device, use this function to update.







Do NOT upgrade firmware on any Atlantis Land product over a wireless connection.

Failure of the device may result. Use only hard-wired network connections.

Web Access: Double click the device in the Monitor List or select a device in the Monitor List and press this "**Web Access**" button to access the device in Web browser.

Toolbar

The toolbar in the Web Management Utility have four main tabs: File, View, Options and Help.

- In the "File TAB", there are Monitor Save, Monitor Save As, Monitor Load and Exit. Monitor Save: To record the setting of the Monitor List to the default, when you open the Web Management Utility next time, it will auto load the default recorded setting. Monitor Save As: To record the setting of the Monitor List in appointed filename and file path. Monitor Load: To manually load the setting file of the Monitor List. Exit: To exit the Web Management Utility.
- In the "View TAB", there are view log and clear log function, this function will help you to show trap setting.
 - View Log: To show the event of the Web Management Utility and the device. Clear Log: to clear the log.
- In the "Option TAB", there are Refresh Time function, this function helps you to refresh the time of monitoring the device. Choose 15 secs, 30 secs, 1 min, 2 min and 5 min to select the time of monitoring.
- In the "Help TAB", there is About function, it will show out the version of the Web Management Utility.



Chapter 4

WEB Configuration

The 48+4G-Port 10/100/1000Mbps Gigabit Ethernet Web Smart Switch has a Web GUI interface for smart switch configuration. The Switch can be configured through the Web Browser. A network administrator can manage, control and monitor the switch from the local LAN. This section indicates how to configure the Switch to enable its smart functions including:

- Port Setting (Speed/Disable, Duplex mode, Flow Control and Port base QoS)
- Virtual LAN Group setting (VLAN)
- Trunking
- System Setting
- Device status and Statistic

4.1 Login

Before you configure this device, note that when the Web Smart Switch is configured through an Ethernet connection, make sure the manager PC must be set on same the **IP network**. For example, when the default network address of the default IP address of the Web Smart Switch is **192.168.0.1**, then the manager PC should be set at 192.168.0.x (where x is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

Open Internet Explorer 5.0 or above Web browser.

Enter IP address http://192.168.0.1 (the factory-default IP address setting) to the address location.



Or through the Web Management Utility, you do not need to remember the IP Address, select the device shown in the Monitor List of the Web Management Utility to settle the device on the Web Browser.

When the following dialog page appears, remain enter the default password "admin" and press Login to enter the main configuration window.

Login
System Name: A02-F48-4G Location Name: PM Office 1 IP Address: 192.168.1.1 MAC Address: 00-40-f4-b6-3c-3a
Password Login

After entering the password, the main page comes up, the screen will display the device status.



48+4-Port 10/100/1000Mbps Web-SMART Gigabit Ethernet Switch

Product Name	48+4G Web-SMART Switch
Firmware Version	1.00.00
Protocol Version	2.001.001
IP Address	192.168.1.1
Subnet mask	255.255.255.0
Default gateway	192.168.1.254
Тгар IР	192.168.1.178
MAC address	00-40-f4-b6-3c-3a
d System Name	A02-F48-4G
tting Location Name	PM Office 1
ing Login Timeout (minutes)	5
System UpTime	0 days 1 hours 7 mins 23 seconds

4.2 Setup Menu

When the main page appears, find the Setup menu in the left side of the screen. Click on the setup item that you want to configure. There are 3 options: **Port Settings, VLAN Settings, Trunk Setting.**



Port Settings

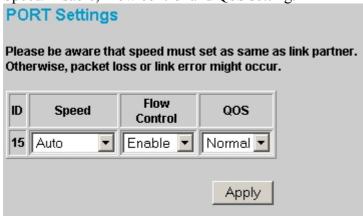
In Port Settings menu, this page will show each port's status, press the ID parameter to set each port's **Speed, Flow Control,** and **QoS priority**. When you need to renew the posted information, press the "**Refresh**" button.

The Link Status in the screen will show the connection speed and duplex mode; else this dialog box will show down when the port is disconnected.



PORT Setting Refresh 10/100 Mbps Flow Link Flow Link ID Speed QOS ID QOS Speed Control Status Control Status 01 Auto Enable Normal Down 25 Auto Enable Normal Down Auto Enable Normal Down 26 Auto Enable Normal Down 02 Enable Normal Down Enable Normal Down 03 Auto 27 Auto Normal 04 Auto Enable Normal Down 28 Auto Enable Down 05 Auto Enable Normal Down 29 Auto Enable Normal Down Auto Enable Normal Down 30 Auto Enable Normal Down 06 Enable Normal Normal 07 Auto Down 31 | Auto Enable Down Auto Enable Normal Down 32 Auto Enable Normal Down 08 Enable Normal Down Enable Normal Down Auto 33 Auto 10 Auto Enable Normal Down 34 Auto Enable Normal Down Normal Down 11 Auto Enable 35 Auto Enable Normal Down

To change the port setting, click on the **ID** parameter to enter to the selected port to configure its Speed/Disable, Flow control and QoS setting.



Speed/Disable:

This setting has six modes: 100M Full, 100M Half, 10M Full, 10M Half, Auto and Disable.

Flow Control:

This setting determines whether or not the Switch will be handling flow control. Set **FlowCtrl** to **Enable** for avoiding data transfer overflow. Or it sets to **Disable**; there is either no flow control or other hardware/software management.



When the port is set to forced mode, then the flow control will automatically set to Disable

Sending packets between two groups may cause packet lost



OoS:

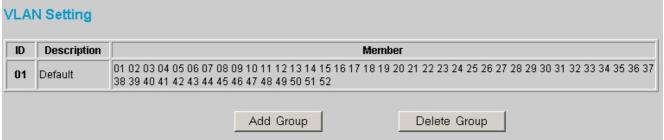
In some ports that need to have a high priority to manage the data transfer, QoS should be change. Set the port's QoS to high to determine the port will always transfer their data first.



QoS function can be working in any port either from port 1 to port 24 or from port 25 to port 52. However, QoS setting can not be working in different port group. For example, we set port 7 and port 28 priority high. When we send packet to port 28, port 7's QoS doesn't work. In the same way, port 25's QoS doesn't work when we send packet to port 2.

VLAN Settings (Virtual Local Area Network)

Group individual ports into a small "Virtual" network of their own to be independent of the other ports. To add a VLAN group, press "Add Group" button, the new VLAN configuration window will pop out, you can fill in the description in order to describe this VLAN Group, check on the port to be a member to this VLAN Group, and press "Apply" button to execute the setting.



There are two group for VLAN Setting, each group have fixed setting to choose, check on the port to be a member to the VLAN Port Group 1 or Port Group 2, and press "Apply" button to execute the setting

ID	02											
Description												
	01	02	03	04	05	06	07	08	09	10	11	12
•												
Port Group 1	13	14	15	16	17	18	19	20	21	22	23	24
	25	26	27	28	29	30	31	32	33	34	35	36
0	37	38	39	40	41	42	43	44	45	46	47	48
Port Group 2						Г	Г	Г		Г	Г	Г
	49	50	51	52								



Once you want to modify the VLAN Group, check on the ID parameter, the ID VLAN configuration window will pop out.



Group 1 and Group 2 can not be managed at the same time



When add a new Vlan, the members of default Vlan 1 are removed automatically. Therefore, packets can only transmit among the member ports of new Vlan. Packets can not fordward among the ports which are not included in the new vlan.

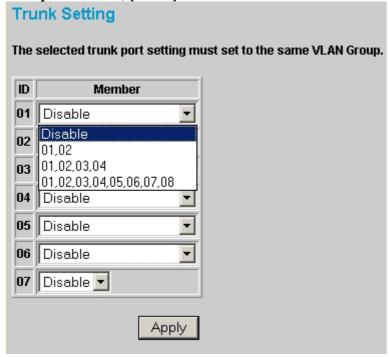
Trunk Setting

The Trunk function enables to cascade two devices with a double times bandwidth (up to 4000Mbps in full duplex mode).

There are seven groups for trunk setting, each group has fixed setting to choose, Group 1~Group 6 for 10/100Mbps setting, Group 7 for 10/100/1000Mbps setting (only port 49 and port 50):

Group 1: Disable, [1:2],[1:4],[1:8] Group 2: Disable, [9:10],[9:12],[9:16] Group 3: Disable, [17:18],[17:20],[17:24] Group 4: Disable, [25:26],[25:28],[25:32] Group 5: Disable, [33:34],[33:37],[33:40] Group 6: Disable, [41:42],[41:44],[41:48]

Group 6: Disable, [49:50]





Be sure that the selected trunk setting port must connect to the device with a same VLAN group.



Status

Click on the "Status" to present the device status on this screen, it will show the System Status, Port Status, VLAN Status and Trunk Status.

Press "Refresh" when you need to renew the posted information.

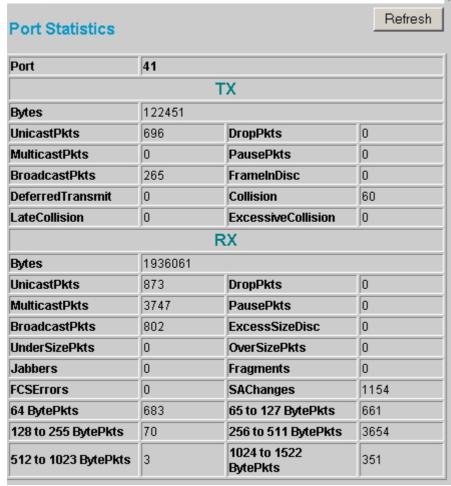
Statistics

The Statistic Menu screen will show the status of each port packet count.

Stat	istics								Refresh
ID	Tx Ok	Rx Ok	Tx Error	Rx Error	ID	Tx Ok	Rx Ok	Tx Error	Rx Error
10/100 Mbps									
<u>01</u>	0	0	0	0	<u>25</u>	0	0	0	0
<u>02</u>	0	0	0	0	<u>26</u>	0	0	0	0
<u>03</u>	0	0	0	0	<u>27</u>	0	0	0	0
<u>04</u>	0	0	0	0	<u>28</u>	0	0	0	0
<u>05</u>	0	0	0	0	<u>29</u>	0	0	0	0
<u>06</u>	0	0	0	0	<u>30</u>	0	0	0	0
<u>07</u>	0	0	0	0	<u>31</u>	0	0	0	0
<u>08</u>	0	0	0	0	<u>32</u>	0	0	0	0
<u>09</u>	0	0	0	0	<u>33</u>	12	91	0	0
<u>10</u>	0	0	0	0	<u>34</u>	0	0	0	0
11	0	0	0	0	<u>35</u>	0	0	0	0
<u>12</u>	0	0	0	0	<u>36</u>	0	0	0	0
<u>13</u>	0	0	0	0	<u>37</u>	0	0	0	0
14	0	0	0	0	<u>38</u>	0	0	0	0
<u>15</u>	0	0	0	0	<u>39</u>	0	0	0	0

For Detail packet information, click on the ID parameter as Figure.





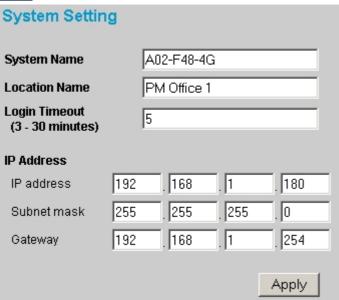
System Settings

The **System Setting** includes the System name, Location name, Login Timeout, IP Address, Subnet Mask and Gateway. Through the Web Management Utility, you can easily recognize the device by using the System Name and the Location Name.

The Login Timeout is to set the idle time-out for security issue, when there is no action when running the Web Smart Utility and the time is up, you must re-login to Web Smart Utility before you set the Utility.

Fill up the IP Address, Subnet Mask and Gateway for the device.





TRAP

The Trap Setting enables the device to monitor the Trap through the Web Management Utility, set the Trap IP Address of the manager where the trap to be sent.



System Events: Monitoring the system's trap.

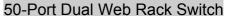
- Device Bootup: a trap when booting up the system.
- Illegal Login: a trap when there is using a wrong password login, and it will record from where the IP to be login.

Fiber Port Events: Monitoring the Fiber port status.

- Link Up/Link Down: a trap when there is linking status happens in fiber port.
- Abnormal* Receive Error: a trap when there are receive data error in fiber port.
- Abnormal* Transmit Error: a trap when there are transmit data error in fiber port.

Copper Port Events: Monitoring the copper port status.

• Abnormal* Receive Error: a trap when there are receive data error in copper port.





- Abnormal* Transmit Error: a trap when there are transmit data error in copper port.
- Abnormal*: 50 error packet count within 10 seconds.



Abnormal*: 50 error packet count within 10 seconds.

Set Password

Password is the invaluable tool for the manager to secure Web Management Switch, use this function to change the password.

If you forget the password, press the "Reset" button in the rear panel of the Switch, the current setting includes VLAN, Port Setting... etc. will be lost and the Switch will restore to the default setting.

Password Setting	
The maximum length is 20	and is case-sensitive.
Old Password	
New Password	
Re-type New Password	
	Apply

Backup Setting

The backup tools help you to backup the current setting of the Switch. Once you need to backup the setting, press the "Backup" button to save the setting.

To restore a current setting file to the device, you must specify the backup file and press "Restore" button to proceed the setting of the recorded file.

Backup Setting	
Please be aware that the device w	ill reboot after config restore successfully.
Backup current setting to file :	Backup
Restore saved setting from file :	Restore Stoglia



When restoring a recorded file, the current password will not be erased.



Reset Settings

The Factory Reset button helps you to reset the device back to the default setting from the factory. Be aware that the entire configuration will be reset, the IP address of the device will be set to default setting 192.168.0.1 [password=admin].



Logout

When press this function, the web configuration will go back to first Login page.



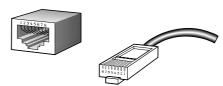
APPENDIX A

RJ-45 Pin Specification

The following diagram and tables show the standard RJ-45 receptacle/connector and their pin

RJ-45 (RJ-45 Connector pin assignment				
Contact	Media Direct Interface Signal				
1	TX + (tx)				
2	TX - (tx)				
3	Rx + (rx)				
4	Not used				
5	Not used				
6	Rx - (rx)				
7	Not used				
8	Not used				

The standard cable, RJ-45 pin assignment.



The standard RJ-45 receptacle/connector.



APPENDIX B

Technical Specifications

Standard	IEEE 802.3 10BASE-T Ethernet
	IEEE 802.3u 100BASE-TX Fast Ethernet
	IEEE 802.3z 1000BASE-SX/LX Gigabit Ethernet
	IEEE 802.3ab 1000BASE-T Gigabit Ethernet
	IEEE 802.3x Full Duplex Flow Control
Protocol	CSMA/CD
	Ethernet: 10Mbps (half duplex), 20Mbps (full-duplex)
Data Transfer Rate	Fast Ethernet: 100Mbps (half duplex), 200Mbps (full-duplex)
	Gigabit Ethernet: 2000Mbps (full-duplex)
Topology	Star
	10BASET: 2-pair UTP Cat. 3, 4, 5; up to 100m
Network Cables	100BASE-TX: 2-pair UTP Cat. 5; up to 100m
Tite Work Cubies	1000BASE-T: 4-pair UTP Cat. 5; up to 100m
	Fiber module: mini-GBIC Fiber module(1000BBASE-SX/LX)
	$48 \times 10/100$ Mbps Auto-MDIX RJ45 ports
Number of Ports	$2 \times 10/100/1000$ Mbps Auto-MDIX RJ45 ports
	2 × mini-GBIC fiber slot
AC inputs	100-240V AC, 50-60 Hz internal universal power supply
Power Consumption	24Watts (Max)
Temperature	Operating: $0^{\circ} \sim 40^{\circ}$ C, Storage: $-10^{\circ} \sim 70^{\circ}$ C
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%
Dimensions	440 x 200 x 44 mm (W x H x D)
EMI:	FCC Class A, CE Mark Class A, VCCI Class A
Safety:	cUL(UL60950), CB(IEC60950)
Transmission Method:	Store-and-forward
Filtering Address Table:	4K entries per device
Packet Filtering / Forwarding	10Mbps Ethernet: 14,880/pps
Rate:	100Mbps Fast Ethernet: 148,800/pps
	1000Mbps Gigabit Ethernet: 1,488,000/pps
MAC Address Learning:	Automatic update
RAM Buffer:	1536K Bytes per device



APPENDIX C

Support

If you have any problems with the Switch, please consult this manual.

If you continue to have problems you should contact the dealer where you bought this Switch. If you have any other questions you can contact the Atlantis Land company directly at the following address:

Atlantis Land SpA Viale De Gasperi, 122 20017 Mazzo di Rho(MI)

Tel: +39. 02.93907634(help desk) / +39. 02.93906085,

Fax: +39. 02.93906161

Email: info@atlantis-land.com or tecnici@atlantis-land.com

WWW: http://www.atlantis-land.com